

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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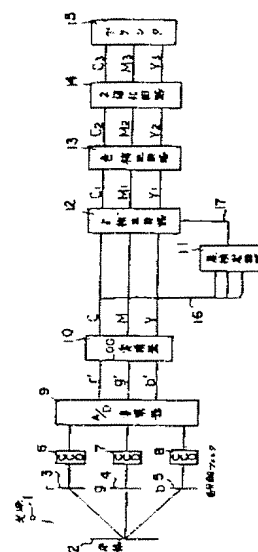
APPLICATION DATE : 29-10-85  
APPLICATION NUMBER : 60240365

APPLICANT : CANON INC;

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INT.CL. : H04N 1/40 G06K 9/36 H04N 1/46

TITLE : PICTURE INFORMATION PROCESSOR



ABSTRACT : PURPOSE: To reduce the chrominance signal difference between black and the other color patches by discriminating whether inputted color picture information is black or not and correcting each chrominance signal in accordance with the discrimination result.

CONSTITUTION: The reflected light from an original 2 irradiated by a light source 1 passes a red, green, and blue color separation filters 3, 4, and 5 and is made incident on CCDs 6-8, and photoelectric converted voltage signals are digitized by an A/D converter 9 to obtain digital luminance signals  $r'$ ,  $g'$ , and  $b'$ . Light intensity signals are converted to density signals and CMY signals 16 indicating the quantities of coloring matters of cyan C, magenta M, and yellow Y are obtained by a LOG converter 10. Black is detected by a black detecting circuit 11, and an output signal 17 is supplied to a correcting circuit 12 to switch the conversion coefficient to a value for black originals and a value for the other colors. Thus, the chrominance signal difference between black originals and complementary color originals is eliminated to reproduce colors well.

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